

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
CYTEC INDUSTRIES, INC. / UTILITIES PLANT
PROPOSED PART 70 AIR OPERATING PERMIT RENEWAL/MODIFICATION

The LDEQ, Office of Environmental Services, is accepting written comments on a proposed Part 70 air operating permit renewal/modification for Cytec Industries, Inc., 10800 River Road, Westwego, LA 70094, for the Utilities Plant. The facility is located at 10800 River Rd in Waggaman, Jefferson Parish.

Cytec Industries, Inc. requested a Part 70 air operating permit renewal and modification for the Utilities Plant. The proposed modifications are as follows:

1. Revise the emission limits for the MET Tank Vent Group Scrubber, Emission Point 2-77/EQT118, based on analysis and re-evaluation of the calculations; and
2. Remove Boiler Stack No. 3, Emission Point 16-72/EQT103. This boiler was dismantled in early year 2004.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	36.20	22.65	- 13.55
SO ₂	2.19	2.05	- 0.14
NO _x	695.32	467.57	- 227.75
CO	307.57	205.55	- 102.02
VOC*	26.49	20.71	- 5.78

***VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Total (TPY)	6.42	9.48	+ 3.06
Non-VOC TAP (TPY):			
Ammonia**	87.43	98.00	+ 10.57
Chlorine	0.001	<0.01	-
Total	87.43	98.00	+ 10.57

** Increase 8.2 TPY NH₃ due to updated calculation methodology (using Water 9 calculation program instead of Chem) and increase 2.3 TPY NH₃ is due to additional fugitive component counts.

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. Written comments and/or written requests must be received by 12:30 p.m., Monday, June 7, 2010. Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The application, proposed permit and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.

Additional copies may be reviewed at the Jefferson Parish Library - Edith S Lawson (Formerly Westwego Branch), 635 Fourth St, Westwego, LA 70094.

Inquiries or requests for additional information regarding this permit action should be directed to Fritz J. Hurst, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3125.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at deqmailistrequest@la.gov or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 1357, Permit Number 2306-V2, and Activity Number PER20090005.

Scheduled publication date: Wednesday, May 5, 2010

BOBBY JINDAL
GOVERNOR



PEGGY M. HATCH
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.:

Agency Interest No. 1357
Activity No.: PER20090005

Paul Mikesell
Director, Business Development & Operations
Cytec Industries Inc.
10800 River Road
Westwego, LA 70094

RE: Part 70 Operating Permit Renewal/Modification, Utilities Plant, Cytec Industries Inc., Waggaman, Jefferson Parish, Louisiana

Dear Mr. Mikesell:

This is to inform you that the permit renewal/modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2015, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2010.

Permit No.: 2306-V2

Sincerely,

Cheryl Sonnier Noland
Assistant Secretary

CSN:fjh
cc: EPA Region VI

**AIR PERMIT BRIEFING SHEET
PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Utilities Plant
Agency Interest No.: 1357
Cytec Industries, Inc.
Waggaman, Jefferson Parish, Louisiana**

I. Background

Cytec Industries, Inc., owns and operates a chemical manufacturing plant south of Louis Armstrong International Airport on the west bank of the Mississippi River. The Utilities Plant currently operates under Permit No. 2306-V1 dated December 16, 2005.

This is the Part 70 operating permit for the facility.

II. Origin

A permit application and Emission Inventory Questionnaire was submitted by Cytec Industries on March 16, 2009, requesting a Part 70 operating permit renewal/modification.

III. Description

The Utilities Plant supports the operation of Cytec Fortier Facility. The Utilities Plant maintains the support of steam, refrigeration, compressed air, cooling and process water, wastewater treatment, electricity, and natural gas for the Fortier Facility.

Cytec inactivated the operation of its 1,550 tons per day Kellogg Ammonia Plant in April 2001, which was commissioned in 1966 and permitted to operate under Permit No. 1984 (M-1) dated January 30, 1995. Although the production of ammonia has ceased at the Fortier Facility, the use of ammonia at the chemical facility is still an integral part of its operation.

In March of 2005, Cytec requested rescission of Permits No. 2157 and PSD-LA-574 for the Methanol Plant. The plant ceased operation in February 1999 and has since been demolished. Although the production of methanol ceased at the Fortier Manufacturing Complex in 1999, the Methanol storage tank and associated control equipment were transferred to the Utilities Permit in September of 2004. Methanol use continues to be part of the sites daily operations.

The proposed modifications of the Utilities Plant are as follows:

1. Revise the emission limits for the MET Tank Vent Group Scrubber, Emission Point 2-77/EQT118, based on analysis and re-evaluation of the calculations; and
2. Remove Boiler Stack No. 3, Emission Point 16-72/EQT103. This boiler was dismantled in early year 2004.

**AIR PERMIT BRIEFING SHEET
PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Utilities Plant
Agency Interest No.: 1357
Cytec Industries, Inc.
Waggaman, Jefferson Parish, Louisiana**

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	36.20	22.65	- 13.55
SO ₂	2.19	2.05	- 0.14
NO _x	695.32	467.57	- 227.75
CO	307.57	205.55	- 102.02
VOC*	26.49	20.71	- 5.78

***VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
1,4-Dichlorobenzene	<0.01	<0.01	-
Acetaldehyde	0.001	<0.01	-
Acetonitrile	0.001	0.50	+ 0.50
Acrylamide	0.001	0.02	+ 0.02
Acrylic Acid	0.001	0.02	+ 0.02
Acrylonitrile	0.07	<0.01	- 0.07
Benzene	0.01	0.02	+ 0.02
Dichlorobenzene	0.008	<0.01	- 0.008
Formaldehyde	0.28	0.18	- 0.10
Hydrogen Cyanide	-	<0.01	- 0.01
Methanol	6.01	4.35	- 1.66
Methyl methacrylate	0.001	0.02	+ 0.019
Naphthalene	0.005	<0.01	- 0.005
Pyridine	<0.001	<0.001	-
Toluene	0.02	0.02	-
n-Hexane	0.01	4.35	+ 4.34
Total	6.42	9.48	+ 3.06

**AIR PERMIT BRIEFING SHEET
PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Utilities Plant
Agency Interest No.: 1357
Cytec Industries, Inc.
Waggaman, Jefferson Parish, Louisiana**

***VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
<u>Non-VOC TAP (TPY):</u>			
Ammonia**	87.43	98.00	+10.57
Chlorine	0.001	<0.01	-
Total	87.43	98.00	+10.57

** Increase 8.2 TPY NH₃ due to updated calculation methodology (using Water 9 calculation program instead of Chem) and increase 2.3 TPY NH₃ is due to additional fugitive component counts.

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration does not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**AIR PERMIT BRIEFING SHEET
PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Utilities Plant
Agency Interest No.: 1357
Cytec Industries, Inc.
Waggaman, Jefferson Parish, Louisiana**

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2010; and in the Times-Picayune, New Orleans, on <date>, 2010. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Emissions associated with the proposed renewal/modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

Dispersion Model Used: None

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Air Quality Standard (NAAQS)
Not Applicable	-	-	-

VIII. General Condition XVII Activities

Activity	Frequency	Pollutant	TPY
Sampling Activities	21 samples/day	Ammonia	0.003
Pump Preparation and Equipment Maintenance	8 pieces of equipment/month	Ammonia	0.02
Startup and Shutdown Activities	N/A	Ammonia	0.03

**AIR PERMIT BRIEFING SHEET
PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Utilities Plant
Agency Interest No.: 1357
Cytec Industries, Inc.
Waggaman, Jefferson Parish, Louisiana**

IX. Insignificant Activities:

<u>ID No.:</u>	<u>Description</u>	<u>Capacity</u>	<u>Citation</u>
55-94	Settling Basin Diesel Tank Vent	76 gals	LAC 33:III.501.B.5.A.2
56-94	River Intake Diesel Tank	254 gals	LAC 33:III.501.B.5.A.3
57-94	Electricity Generator Diesel Tank	1,656 gals	LAC 33:III.501.B.5.A.3
58-94	Sodium Aluminate Tank	3,223 gals	LAC 33:III.501.B.5.A.4
60-94	Chlorine Neutralization Tank	301 gals	LAC 33:III.501.B.5.A.4
61-94	Cooling TWR No. 2 Chemical Treatment Storage Tank – Perform 403	3,223 gals	LAC 33:III.501.B.5.B.8
62-94	Cooling TWR No. 2 Chemical Treatment Storage Tank – Performax 4021	3,223 gals	LAC 33:III.501.B.5.B.8
63-94	Cooling TWR No. 2 Sulfuric Acid Storage Tank	113 gals	LAC 33:III.501.B.5.B.8
64-94	End of Pipe Sulfuric Acid Storage Tank	4,582 gals	LAC 33:III.501.B.5.A.5
65-94	End of Pipe Caustic Storage Tank	4,582 gals	LAC 33:III.501.B.5.A.4
68-94	Boiler Plant Water Treatment Storage Tank 1	3,223	LAC 33:III.501.B.5.B.8
69-94	Boiler Plant Chemical Wash Storage Tank	1,733	LAC 33:III.501.B.5.B.8
70-94	Boiler Plant Water Treatment Storage Tank 2	1,409	LAC 33:III.501.B.5.B.8
72-94	Boiler Plant Water Treatment Day Tank	169 gals	LAC 33:III.501.B.5.B.8
76-94	Sanitation System Vent Group	NA	LAC 33:III.501.B.5.B.15
80-94	Settling Basin Fire Pump	140 hp	LAC 33:III.501.B.5.B.32
82-94	Machinery Oil Vent Group	NA	LAC 33:III.501.B.5.B.16
83-94	Lab Vent Group	NA	LAC 33:III.501.B.5.A.7
90-94	New Settling Basin Fire Pump	265 hp	LAC 33:III.501.B.5.B.32
91-94	River Diesel Fire Pump	300 hp	LAC 33:III.501.B.5.B.32
92-94	Diesel Generator	417 hp	LAC 33:III.501.B.5.B.32
11-93	Demin Acid Tank	163 gals	LAC 33:III.501.B.5.A.5
12-93	Demin Caustic Tank	1,879 gals	LAC 33:III.501.B.5.A.4
13-93	West Neutralization Tank	8,527 gals	LAC 33:III.501.B.5.A.4
14-93	East Neutralization Tank	8,527 gals	LAC 33:III.501.B.5.A.4
52-93	Oil Storage Bin Outside	465 gals	LAC 33:III.501.B.5.A.3
53-93	Oil Sump	863 gals	LAC 33:III.501.B.5.A.3

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant
Agency Interest No.: 1357
Cytec Industries, Inc.
Waggaman, Jefferson Parish, Louisiana

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter										
		5	9	11	13	15	21	22	29	51	56	59
UNF0005	Utilities Plant	1	1	1	1	1			1		1	1
EQT 02/14-72	Boiler Stack No. 1			1	1	1						
EQT 04/17-72	Boiler Stack No. 4			1	1	1						
EQT 05/MET 1	MET Tank 1					3						
EQT 06/35-88	Ammonia Injection Pipeline Flare	1		1	1					1		
EQT 07/1-90	Baghouse Lime Storage Silo			1								
EQT 08/53-94	Cooling Tower No. 2											
EQT 09/73-94	Utilities Pumping Station No. 1A						1					
EQT 10/74-94	Utilities Pumping Station No. 2A						1					
EQT 11/77-94	End of Pipe (OEP) Vent Group						1					
EQT 12/79-94	Intercept Ditch						1					
EQT 13/84-94	Building 270 Vent Group						1					
EQT 15/93-94	UMCE Field Sump							1				
EQT 16/1-71	Flare Stack - NH3 Storage Tank 25KII							1				
EQT 17/MET 2	MET Tank 2								3			
EQT 18/2-77	MET Tank Vent Group Scrubber									1		
EQT 19/14-92	T-1 Flare (VS-4)						1	1	1		1	
EQT 20/ST VS	ST-1 Vent Scrubber (D-402)											
EQT 21/ST BL	ST-1 Barge Loading									1		
EQT 22/ST T	ST-1 Methanol Storage Tank									1		
EQT 23/21-09	Anticipated Turnaround Equipment Emissions											

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**Utilities Plant****Agency Interest No.: 1357****Cytel Industries, Inc.****Waggaman, Jefferson Parish, Louisiana****X. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	5	9	11	13	15	21	22	29	51	52	56	59
EQT205/22-09	Tank Cleanout/Maintenance Activities												
FUG004/89-94	Fugitive Emissions					3				1			

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant
Agency Interest No.: 1357
Cytec Industries, Inc.
Waggaman, Jefferson Parish, Louisiana

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR		
		A	D	Kb	III	VV	M	A	G	H	Q	68	82
UNF0005	Utilities Plant						1	1					
EQT102/14-72	Boiler Stack No. 1												
EQT104/17-72	Boiler Stack No. 4			1									
EQT105/MET1	MET Tank 1												
EQT106/35-88	Ammonia Injection Pipeline Flare					3							
EQT107/1-90	Baghouse Lime Storage Silo												
EQT108/53-94	Cooling Tower No. 2												
EQT109/73-94	Utilities Pumping Station No. 1A										1		
EQT110/74-94	Utilities Pumping Station No. 2A										-		
EQT111/77-94	End of Pipe (OEP) Vent Group										-		
EQT112/79-94	Intercept Ditch										-		
EQT113/84-94	Building 270 Vent Group												
EQT115/93-94	UMCE Field Sump										-		
EQT116/1-71	Flare Stack - NH3 Storage Tank 25KII												
EQT117/MET2	MET Tank 2					3							
EQT118/2-77	MET Tank Vent Group Scrubber												
EQT119/14-92	ST-1 Flare (VS-4)												
EQT120/ST1VS	ST-1 Vent Scrubber (D-402)												
EQT121/ST1BL	ST-1 Barge Loading												

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant
Agency Interest No.: 1357
Cytel Industries, Inc.
Waggaman, Jefferson Parish, Louisiana

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR 68		
		A	D	Kb	III	VV	M	A	G	H	Q	40 CFR	40 CFR
EQT122/ST1T	ST-1 Methanol Storage Tank			1						1			
EQT203/21-09	Anticipated Turnaround Equipment Emissions				2								
EQT205/22-09	Tank Cleanout/Maintenance Activities												
FUC004/89-94	Fugitive Emissions						3				3		

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant
Agency Interest No.: 1357
Cytec Industries, Inc.
Waggaman, Jefferson Parish, Louisiana

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT105/MET1 MET Tank 1	Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 – Subpart Kb [40 CFR 60.110b] Storage of Volatile Organic Compounds [LAC 33:II.2103]	DOES NOT APPLY. Tank does not store volatile organic compounds.
EQT117/MET2 MET Tank 2	Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 – Subpart Kb [40 CFR 60.110b] Storage of Volatile Organic Compounds [LAC 33:II.2103]	DOES NOT APPLY. Tank does not store volatile organic compounds.
EQT108/53-94 Cooling Tower No. 2	National Emission Standard for Hazardous Air Pollutants for Industrial Process Cooling Towers Subpart Q [40 CFR 63.400]	DOES NOT APPLY. Chromium is not a component in cooling water tower treatment chemicals.
EQT1161/1-71 Flare Stack -NH ₃ , Storage Tank 25KII	General Control Device Requirements (Flares) [40 CFR 60.18]	DOES NOT APPLY. This flare is not covered under NSPS General Provision requirements since it does not control emissions from NSPS emission sources.
EQT203/21-09 Anticipated Turnaround Equipment Emissions	Standards of Performance for Stationary Compression Ignition Internal Combustion – Subpart III [40 CFR 60]	DOES NOT APPLY. This equipment is considered to be non-road engines and does not meet the definition of stationary internal combustion engine. These are temporary rental units used during turnarounds.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Utilities Plant
Agency Interest No.: 1357
Cytelc Industries, Inc.
Waggaman, Jefferson Parish, Louisiana

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section VII of this permit.

General Information

AI ID: 1357 Cytec Industries Inc - Fortier Plant
 Activity Number: PER20090005
 Permit Number: 2306-V2
 Air - Title V Regular Permit Renewal

Also Known As:	ID	Name	User Group	Start Date
	1340-00001	Cytec Industries Inc - Fortier Plant	CDS Number	05-27-1993
	22-32266660	Federal Tax ID	Federal Tax ID	11-21-1999
	LAD008175390	Cytec Industries Inc - Fortier Plant	Hazardous Waste Notification	12-17-1993
CA		GPRA Baselines	Inactive & Abandoned Sites	10-01-1997
LAD008175390		Inactive	LPDES Permit #	11-01-1979
LA0004367		LPDES #	LPDES Permit #	05-22-2003
LAG530212		LPDES #	LWDPS Permit #	05-22-2003
WG-010638		LWDPS #	LWDPS Permit #	05-22-2003
WP1832		LWDPS #	LWDPS Permit #	06-25-2003
GL-155		Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
1289		Radiation General License	Radiation License Number	12-12-2000
GD-051-0807		X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
16738		Site ID #	Solid Waste Facility No.	11-21-1999
38327		American Cyanamid Co	TEMPO Merge	01-24-2001
45050		Cytec Industries Inc	TEMPO Merge	10-31-2000
46789		Cytec Industries Inc - Fortier Plant	TEMPO Merge	10-31-2000
70094MRCNC10800		TRI #	Toxic Release Inventory	07-09-2004
26000220		UST Facility ID (from UST legacy data)	UST FID #	10-11-2002
14546		Waste Tires	Waste Tire Facility ID Number	06-11-2008
Physical Location:			Main FAX:	5044316600
Mailing Address:			Main Phone:	5044319511
Location of Front Gate:		29.957883 latitude, -90.265681 longitude, Coordinate Method: Lat. Long. - DMS, Coordinate Datum: NAD83	Relationship	
Related People:		Mailing Address	Phone (Type)	
Paul Mikesell		10800 River Rd Wagggaman, LA 70094	5044319511 (NP)	Responsible Official for
Cathy Porthouse		10800 River Rd Westwego, LA 70094	5044316492 (NP)	Hazardous Waste Permit Contact for
Cathy Porthouse		10800 River Rd Westwego, LA 70094	5044316492 (NP)	Waste Tires Contact for
Dennis Przybylski		10800 River Rd Wagggaman, LA 70094	5044316854 (NP)	Radiation Contact for
Dennis Przybylski		10800 River Rd Wagggaman, LA 70094	5044316854 (NP)	Accident Prevention Contact for

General Information

AI ID: 1357 Cytec Industries Inc - Fortier Plant
 Activity Number: PER20090005
 Permit Number: 2306-V2
 Air - Title V Regular Permit Renewal

Related People:	Name	Mailing Address	Phone (Type)	Relationship
Dennis Przybylski		10800 River Rd WaggaMan, LA 70094	5044316854 (W/P)	Accident Prevention Billing Party for
Shawn Ward		10800 River Rd WaggaMan, LA 70094	5044316871 (W/P)	Employed by
Jamie Williams		10800 River Rd WaggaMan, LA 70094	5044316556 (W/P)	Air Permit Contact For
Jamie Williams		10800 River Rd WaggaMan, LA 70094	Jamie.williams@cyte	Air Permit Contact For
Jamie Williams		10800 River Rd WaggaMan, LA 70094	5044316556 (W/P)	Emission Inventory Contact for
Jamie Williams		10800 River Rd WaggaMan, LA 70094	Jamie.williams@cyte	Emission Inventory Contact for
Related Organizations:	Name	Address	Phone (Type)	Relationship
CYTEC Industries Inc		10800 River Rd Westwego, LA 70094	Operates	
CYTEC Industries Inc		10800 River Rd Westwego, LA 70094	Owns	
CYTEC Industries Inc		10800 River Rd Westwego, LA 70094	Emission Inventory Billing Party	
CYTEC Industries Inc		10800 River Rd Westwego, LA 70094	Air Billing Party for	
CYTEC Industries Inc		10800 River Rd Westwego, LA 70094	Radiation License Billing Party for	
CYTEC Industries Inc		10800 River Rd Westwego, LA 70094	Radiation Registration Billing Party for	

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdated@la.gov.

INVENTORIES

AI ID: 1357 - Cytec Industries Inc - Fortier Plant
 Activity Number: PER20090005
 Permit Number: 2306-V2
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Utilities Plant						
EQT 0102	14-72 - Boiler Stack No. 1		296.8 MM BTU/hr	230 MM BTU/hr	Natural Gas	8760 hr/yr
EQT 0104	17-72 - Boiler Stack No. 4		296.8 MM BTU/hr	275 MM BTU/hr		8760 hr/yr
EQT 0105	ME11 - MET Tank 1	1 million gallons				8760 hr/yr
EQT 0106	35-88 - Ammonia Injection Pipeline Flare		8.25 MM BTU/hr	8.25 MM BTU/hr		1080 hr/yr
EQT 0107	1-90 - Baghouse Lime Storage Silo		1.5 MM lbs/yr	1.4 MM lbs/yr		8760 hr/yr
EQT 0108	53-94 - Cooling Tower No. 2		30000 gallons/min	30000 gallons/min		8760 hr/yr
EQT 0109	73-94 - Utilities Pumping Station No. 1A	4307 gallons				8760 hr/yr
EQT 0110	74-94 - Utilities Pumping Station No. 2A					365 hr/yr
EQT 0111	77-94 - End of Pipe (EOP) Vent Group					8760 hr/yr
EQT 0112	79-94 - Intercept Ditch					8760 hr/yr
EQT 0113	84-94 - Building 270 Vent Group					8760 hr/yr
EQT 0115	93-94 - UMC Field Sump	2872 gallons				8760 hr/yr
EQT 0116	1-71 - Flare Stack - NH3 Storage 25KII		8.53 MM BTU/hr	8.53 MM BTU/hr	Natural Gas	8760 hr/yr
EQT 0117	ME72 - MET Tank 2	2 million gallons				8760 hr/yr
EQT 0118	2-77 - MET Tank Vent Group Scrubber	3 million gallons	300 gallons/min	250 gallons/min		8760 hr/yr
EQT 0119	14-92 - Flare (VS-4)		18.5 MM gallons/yr	630000 gallons/day	Natural Gas	8760 hr/yr
EQT 0120	ST1VS - Vent Scrubber (D-402)					8760 hr/yr
EQT 0121	ST1BL - ST-1 Barge Loading		420000 gallons/day			8760 hr/yr
EQT 0122	ST1T - ST-1 Methanol Storage Tank		212 MM gallons/yr			8760 hr/yr
EQT 0203	21-09 - Anticipated Turnaround Equipment Emissions					576 hr/yr
EQT 0205	22-09 - Tank Cleanout/Maintenance Activities					2160 hr/yr
FUG 0004	89-94 - Utilities Fugitives					8760 hr/yr
Stack Information:						
ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)
Utilities Plant						
EQT 0102	14-72 - Boiler Stack No. 1	16.9	25860	.57		100
EQT 0104	17-72 - Boiler Stack No. 4		25860	.57		16.9
EQT 0105	ME11 - MET Tank 1			.8		49
EQT 0106	35-88 - Ammonia Injection Pipeline Flare	66.3	12498	2		62
EQT 0107	1-90 - Baghouse Lime Storage Silo	573	1080	.2		40
EQT 0108	53-94 - Cooling Tower No. 2	106.1	19998		13005	40
EQT 0111	77-94 - End of Pipe (EOP) Vent Group					30000
EQT 0112	79-94 - Intercept Ditch					2
EQT 0113	84-94 - Building 270 Vent Group					22750

INVENTORIES

AI ID: 1357 - Cytec Industries Inc - Fortier Plant
 Activity Number: PER20090005
 Permit Number: 2306-V2
 Air - Title V Regular Permit Renewal

Stack Information:		Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Utilities Plant								
EQT 0115	93-94 - UMCE Field Sump							
EQT 0116	1-71 - Flare Stack - NH3 Storage 25KII		65.43	2386	.84	400	95	77
EQT 0118	2-77 - MET Tank Vent Group Scrubber							1832
EQT 0119	14-92 - Flare (VS-4)		65.6	40064	3.6		49	90
EQT 0122	ST1T - ST-1 Methanol Storage Tank						65	
EQT 0203	21-09 - Anticipated Turnaround Equipment Emissions						300	
FUG 0004	89-94 - Utilities Fugitives					26400	6	77

Relationships:		Description	Relationship	ID	Description
EQT 0105	MET1 - MET Tank 1	Vents to		EQT 0118	2-77 - MET Tank Vent Group Scrubber
EQT 0117	MET2 - MET Tank 2	Vents to		EQT 0118	2-77 - MET Tank Vent Group Scrubber
EQT 0120	ST1VS - Vent Scrubber (D-402)	Vents to		EQT 0119	14-92 - Flare (VS-4)
EQT 0121	ST1BL - ST-1 Barge Loading	Vents to		EQT 0120	ST1VS - Vent Scrubber (D-402)
EQT 0122	ST1T - ST-1 Methanol Storage Tank	Vents to		EQT 0120	ST1VS - Vent Scrubber (D-402)

Subject Item Groups:		Group Type	Group Description
UNF 0005	Unit or Facility Wide		- Utilities Plant

Group Membership:

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
1540	1540 Steam Gen. Units-Natural Gas or Comb Non-Fossil Fuels (Rated Capacity)	400	M lb/hr

SIC Codes:

4961	Steam and air conditioning supply	UNF 005
------	-----------------------------------	---------

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1357 - Cytec Industries Inc - Fortier Plant

Activity Number: PER20090005

Permit Number: 2306-V2

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Utilities Plant															
EQT 0102 14-72	20.77	22.85	90.99	46.99	51.69	205.81	1.88	2.07	8.23	0.15	0.16	0.65	1.36	1.50	5.96
EQT 0104 17-72	24.84	27.32	108.79	56.18	61.80	246.08	2.25	2.47	9.84	0.18	0.20	0.78	1.63	1.79	7.12
EQT 0106 35-86	0.75	0.82	0.40	1.69	1.85	0.91	0.07	0.07	0.04	0.01	0.01	<0.01	0.05	0.05	0.03
EQT 0107 1-90							0.52	0.78	2.26						
EQT 0108 53-94							0.37	15.61	1.61						
EQT 0109 73-94													0.001	0.001	<0.01
EQT 0111 77-94													0.32	0.36	1.42
EQT 0112 79-94													0.01	0.01	0.04
EQT 0113 84-94													0.01	0.01	0.03
EQT 0116 1-71	0.77	0.85	3.37	1.29	2.34	5.64	0.01	0.01	0.03	0.01	0.01	0.05	0.02	0.05	0.22
EQT 0118 2-77													0.02	0.02	0.09
EQT 0119 14-92	0.52	0.58	0.06	1.18	1.30	0.14	0.05	0.05	0.01	<0.001	<0.001	0.43	0.46	1.75	
EQT 0203 21-99	2.11	7.23	0.61	9.78	33.54	2.82	0.69	2.36	0.20	0.64	2.21	0.19	0.94	3.21	0.27
EQT 0205 22-99	1.23	1.48	1.33	5.71	6.86	6.17	0.40	0.48	0.43	0.38	0.46	0.41	1.13	1.36	1.22
FUG 0004 88-94													0.58	0.58	2.56

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1357 - Cytec Industries Inc - Fortier Plant

Activity Number: PER20090005

Permit Number: 2306-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0102 14-72	Benzene	0.001	0.001	<0.01
	Dichlorobenzene	<0.001	<0.001	<0.01
	Formaldehyde	0.02	0.02	0.08
	Naphthalene	<0.001	<0.001	<0.01
	Toluene	0.001	0.001	<0.01
	n-Hexane	0.46	0.49	1.95
EQT 0104 17-72	Benzene	<0.001	<0.001	<0.01
	Dichlorobenzene	<0.001	<0.001	<0.01
	Formaldehyde	0.02	0.02	0.10
	Naphthalene	<0.001	<0.001	<0.01
	Toluene	<0.001	<0.001	<0.01
	n-Hexane	0.53	0.54	2.33
EQT 0106 35-88	Ammonia	1.71	1.88	0.92
	Formaldehyde	0.001	0.001	<0.01
	n-Hexane	0.02	0.02	<0.01
EQT 0108 53-94	Chlorine	<0.001	0.01	<0.01
EQT 0109 73-94	Ammonia	0.001	0.001	<0.01
	Methanol	0.001	0.001	<0.01
EQT 0110 74-94	Ammonia	10.57	19.89	1.93
EQT 0111 77-94	Ammonia	1.70	1.87	7.43
EQT 0112 78-94	Ammonia	1.40	1.54	6.13
EQT 0113 84-94	Ammonia	0.12	0.14	0.54
EQT 0115 93-94	Ammonia	0.01	0.01	0.03
EQT 0116 1-71	1,4-Dichlorobenzene	<0.001	<0.001	<0.01
	Ammonia	14.25	49.88	62.42
	Benzene	<0.001	<0.001	<0.01
	Formaldehyde	<0.001	<0.001	<0.01
	Naphthalene	<0.001	<0.001	<0.01
	Toluene	<0.001	<0.001	<0.01
	n-Hexane	0.02	0.02	0.07
EQT 0118 2-77	Acetaldehyde	<0.001	<0.001	<0.01
	Acetonitrile	0.02	0.02	0.07
	Acrylamide	<0.001	<0.001	<0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1357 - Cytec Industries Inc - Fortier Plant

Activity Number: PER20090005

Permit Number: 2306-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0118 2-77	Acrylic acid	<0.001	<0.001	<0.01
	Acrylonitrile	<0.001	<0.001	<0.01
	Ammonia	0.35	1.92	1.53
	Benzene	<0.001	<0.001	<0.01
	Hydrogen cyanide	0.002	0.004	<0.01
	Methanol	<0.001	<0.001	<0.01
	Methyl methacrylate	<0.001	<0.001	<0.01
	Pyridine	<0.001	<0.001	<0.01
EQT 0119 14-92	Methanol	0.40	0.44	1.75
EQT 0205 22-09	Acetaldehyde	0.001	0.001	0.001
	Acetonitrile	0.40	0.48	0.43
	Acrylamide	0.02	0.02	0.02
	Acrylic acid	0.02	0.02	0.02
	Ammonia	0.10	0.12	0.11
	Benzene	0.02	0.03	0.02
	Formaldehyde	0.002	0.002	0.002
	Methanol	0.04	0.05	0.04
	Methyl methacrylate	0.02	0.02	0.02
	Propylene	0.004	0.004	0.004
	Toluene	0.02	0.03	0.02
FUG 0004 69-94	Ammonia	3.87	3.87	16.96
	Methanol	0.58	0.58	2.56
UNF 0005	1,4-Dichlorobenzene			<0.01
	Acetaldehyde			<0.01
	Acetonitrile			0.50
	Acrylamide			0.02
	Acrylic acid			0.02
	Acrylonitrile			<0.01
	Ammonia			98.00
	Benzene			0.02
	Chlorine			<0.01
	Dichlorobenzene			<0.01
	Formaldehyde			0.18

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1357 - Cytec Industries Inc - Fortier Plant

Activity Number: PER20090005

Permit Number: 2306-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0005	Hydrogen cyanide			<0.01
	Methanol			4.35
	Methyl methacrylate			0.02
	Naphthalene			<0.01
	Pyridine			<0.01
	Toluene			0.02
	n-Hexane			4.35

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 1357 - Cytac Industries Inc - Fortier Plant
Activity Number: PER20090005
Permit Number: 2306-v2
Air - Title V Regular Permit Renewal

EQT 0102 14-72 - Boiler Stack No.1

- 1 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

EQT 0104 17-72 - Boiler Stack No. 4

- 4 [40 CFR 60.40] Natural gas-fired SGUs of >250 million BTU/hr heat input shall comply with opacity, PM, and NOx standards given in the regulation (Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971 - Subpart D).
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

EQT 0105 MET1 - MET Tank 1

- 7 [LAC 33:III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be a flare.

EQT 0106 35-88 - Ammonia Injection Pipeline Flare

- 8 [LAC 33:III.1105] Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
 Flare gas: Heat content > 200 BTU/scf, to ensure destruction of emissions to the flare stack.
 Which Months: All Year Statistical Basis: None specified
 Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.

SPECIFIC REQUIREMENTS

AI ID: 1357 - Cytec Industries Inc - Fortier Plant
Activity Number: PER20090005
Permit Number: 2306-V2
Air - Title V Regular Permit Renewal

EQT 0106 35-88 - Ammonia Injection Pipeline Flare

12 [LAC 33:III.501.C.6]

Flare gas: Heat content monitored by gas analysis annually, to insure the heat content is above 200 BTU/scf.
 Which Months: All Year Statistical Basis: None specified

Presence of a flame recordkeeping by electronic or hard copy continuously only when connected to process or waste gas streams. To insure that no gases are fed to the flare without a flame present, a slip blind will be installed in the line to the flare when not in service and keep records of the time the flare is actually processing vent gases.

Flare gas: Heat content recordkeeping by electronic or hard copy annually.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be a flare.

EQT 0107 1-90 - Baghouse Lime Storage Silo

16 [LAC 33:III.1305]

Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.

Total suspended particulate <= 7.50 lb/hr. The rate of emission shall be the total of all emission points from the source.

Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

EQT 0109 73-94 - Utilities Pumping Station No. 1A

19 [40 CFR 63.132(A)(3)]

Group 2 wastewater streams shall comply with applicable Recordkeeping and Reporting requirements of 40 CFR 63.146 and 63.147 (HON Subpart G, Process Wastewater Provisions). [40 CFR 63.132(A)(3)]

Emis Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table S1.1 or S1.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0110 74-94 - Utilities Pumping Station No. 2A

21 [40 CFR 63.132(A)(3)]

Group 2 wastewater streams shall comply with applicable Recordkeeping and Reporting requirements of 40 CFR 63.146 and 63.147 (HON Subpart G, Process Wastewater Provisions). [40 CFR 63.132(A)(3)]
 Emis Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table S1.1 or S1.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0111 77-94 - End of Pipe (EOP) Vent Group

23 [40 CFR 63.132(A)(3)]

Group 2 wastewater streams shall comply with applicable Recordkeeping and Reporting requirements of 40 CFR 63.146 and 63.147 (HON Subpart G, Process Wastewater Provisions). [40 CFR 63.132(A)(3)]

SPECIFIC REQUIREMENTS

AI ID: 1357 - Cytec Industries Inc - Fortier Plant
 Activity Number: PER20090005
 Permit Number: 2306-V2
 Air - Title V Regular Permit Renewal

EQT 0111 77-94 - End of Pipe (EOP) Vent Group

24 [LAC 33:III.51.07.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0112 79-94 - Intercept Ditch

25 [40 CFR 63.132(A)(3)] Group 2 wastewater streams shall comply with applicable Recordkeeping and Reporting requirements of 40 CFR 63.146 and 63.147 (HON Subpart G, Process Wastewater Provisions). [40 CFR 63.132(A)(3)]
 Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0113 84-94 - Building 270 Vent Group

27 [LAC 33:III.51.07.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0115 93-94 - UMCE Field Sump

28 [40 CFR 63.132(A)(3)] Group 2 wastewater streams shall comply with applicable Recordkeeping and Reporting requirements of 40 CFR 63.146 and 63.147 (HON Subpart G, Process Wastewater Provisions). [40 CFR 63.132(A)(3)]
 Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0116 1-71 - Flare Stack - NH3 Storage 25KII

30 [LAC 33:III.11.05] Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average
 Flare gas: Heat content monitored by gas analysis annually, to insure the heat content is above 200 BTU/scf.
 Which Months: All Year Statistical Basis: None specified
 Presence of a flare recordkeeping by electronic or hard copy continuously.
 Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.
 Flare gas: Heat content recordkeeping by electronic or hard copy annually.
 Flare gas: Heat content > 200 BTU/scf, to ensure destruction of emissions to the flare stack.
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1357 - Cytec Industries Inc - Fortier Plant
Activity Number: PER20090005
Permit Number: 2306-V2
Air - Title V Regular Permit Renewal

EQT 0116 1-71 - Flare Stack - NH3 Storage 25KII

37 [LAC 33:III.5107.A.2] Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table S1.1 or S1.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0117 MET2 - MET Tank 2

38 [LAC 33:III.5109.A.1] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be a flare.

EQT 0118 2-77 - MET Tank Vent Group Scrubber

39 [40 CFR 63.132(A)(3)] Group 2 wastewater streams shall comply with applicable Recordkeeping and Reporting requirements of 40 CFR 63.146 and 63.147 (HON Subpart G, Process Wastewater Provisions). [40 CFR 63.132(A)(3)] VOC, Total \geq 95 % control efficiency. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.

40 [LAC 33:III.2103.E.1] Which Months: All Year Statistical Basis: None specified Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. The Scrubber has a 95% efficiency and followed by a flare which is determined to MACT.

EQT 0119 14-92 - Flare (VS-4)

42 [LAC 33:III.1105] Opacity \leq 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.

43 [LAC 33:III.1311.C] Which Months: All Year Statistical Basis: None specified Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

44 [LAC 33:III.1311.C] Which Months: All Year Statistical Basis: Six-minute average Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

45 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Six-minute average Presence of a flame recordkeeping by electronic or hard copy continuously.

46 [LAC 33:III.501.C.6] Flare gas: Heat content recordkeeping by electronic or hard copy annually.

47 [LAC 33:III.501.C.6] Flare gas: Heat content monitored by gas analysis annually, to insure the heat content is above 200 BTU/scf.

48 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified Flare gas: Heat content $>$ 200 BTU/scf, to ensure destruction of emissions to the flare stack.

49 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified Develop a corrective action plan for re-lighting the flare. Plan must be kept readily available for immediate implementation in the event the flare needs to be re-lit.

SPECIFIC REQUIREMENTS

AJ ID: 1357 - Cytec Industries Inc - Fortier Plant
Activity Number: PER20090005
Permit Number: 2306-V2
Air - Title V Regular Permit Renewal

EQT 0119 14-92 - Flare (VS-4)

50 [LAC 33:III.5109.A.1]

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be a flare.

EQT 0120 ST1VS - Vent Scrubber (D-402)

51 [LAC 33:III.2103.E.1]

VOC, Total $\geq 95\%$ control efficiency. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.

Which Months: All Year Statistical Basis: None specified

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112. Table 51.2.

EQT 0121 ST1BL - ST-1 Barge Loading

54 [LAC 33:III.2107.B]

VOC, Total $\geq 90\%$ DRE.

Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2107.D.3-4.

Determine compliance with LAC 33:III.2107.B using the methods in LAC 33:III.2107.E.1 through 5, as appropriate.

Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be a flare.

EQT 0122 ST1T - ST-1 Methanol Storage Tank

58 [40 CFR 60.112b(a)(3)(ii)]

VOC, Total $\geq 95\%$ reduction efficiency using a closed vent system and control device. Subpart Kb. [40 CFR 60.112b(a)(3)(ii)]

Which Months: All Year Statistical Basis: None specified
 Equip with a closed vent system and control device as specified in 40 CFR 60.112b(a)(3). Subpart Kb. [40 CFR 60.112b(b)(1)]

Group 2 wastewater streams shall comply with applicable Recordkeeping and Reporting requirements of 40 CFR 63.146 and 63.147 (HON Subpart G, Process Wastewater Provisions). [40 CFR 63.132(A)(3)]

VOC, Total $\geq 95\%$ control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.

Which Months: All Year Statistical Basis: None specified
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
 MACT is determined to be a flare.

FUG 0004 89-94 - Utilities Fugitives

SPECIFIC REQUIREMENTS

AI ID: 1357 - Cytel Industries Inc - Fortier Plant
Activity Number: PER20090005
Permit Number: 2306-V2
Air - Title V Regular Permit Renewal

FUG 0004 89-94 - Utilities Fugitives

63 [LAC 33:III.501.C.6]

The Fortier Manufacturing Complex has elected to monitor ammonia fugitive emissions per the requirements of LAC 33:III.2121 as stated in the Air Toxics Compliance Plan. Ammonia is monitored using a Thermo TVA Photo Ionization Detector or equivalent device capable of monitoring for ammonia and calibrated with isobutylene or equivalent calibration gas.

The Fortier Manufacturing Complex monitors VOC's including methanol fugitive emissions per the requirements of 40 CFR 63 Subpart H as part of the approved and established Consolidated LDAR Program. The methanol tanked and associated equipment were transferred to the Utilities permit in 2004 following the rescission of the Methanol Plant Permit. Although 40 CFR 63 Subpart H is not applicable to the Utilities Plant, the transferred equipment is considered as being subject to Subpart H requirements. Comply with LAC 33:III.5109, 40 CFR 60.480 Subpart VV, and 40 CFR 63 Subpart H by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with 40 CFR 63.160 Subpart H - National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks.

Permittee shall comply with a streamlined equipment leak monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the fugitive emission monitoring programs being streamlined, as indicated in the following table. Non-compliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emissions programs.

- i) Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (LAC 33:III.Chapter 51) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamline program will include any exemptions based on size of component available in any of the programs being streamlined.
 - ii) Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters. Some allowance may be made in the first year of the streamlined program in order to allow for transition from existing monitoring schedules.
 - iii) Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semianual reports shall be submitted on January 31 and July 31, to cover the periods July 1 through December 31 and January 1 through June 30, respectively. The semianual reports shall include any monitoring performed within the reporting periods.
- Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

UNF 0005 - Utilities Plant

65 [LAC 33:III.5107.A.2]

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.

SPECIFIC REQUIREMENTS**AI ID:** 1357 - Cytec Industries Inc - Fortier Plant**Activity Number:** PER20090005**Permit Number:** 2306-V2**Air - Title V Regular Permit Renewal****UNF 0005 - Utilities Plant**

- 67 [40 CFR 61.148] Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.
All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- 68 [40 CFR 61.] Shall comply with all applicable provisions of 40 CFR 63.1-15 Subpart A.
- 69 [40 CFR 63.] Shall comply with all applicable provisions of 40 CFR 68 (Risk Management Program).
- 70 [40 CFR 68.] Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- The emissions of smoke which passes onto or across a public road and creates a traffic hazard by impairment of visibility as defined in LAC 33:III.1.1 or intensifies an existing traffic hazard condition is prohibited.
- 71 [40 CFR 82. Subpart F] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1.7.
- All rotary pumps and compressors handling VOC with $TVP >= 1.5$ psia must be equipped with mechanical seals or equivalent approved equipment.
- Best practical housekeeping/maintenance practices to be maintained at highest possible standards. Emissions of organic compounds to be reduced where feasible. A written plan shall be developed and kept on site.
- Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
- If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- Submit permit application: Due prior to construction, reconstruction or modification unless otherwise provided in LAC 33:III.Chapter 5.
- Submit a timely and complete permit application to the Office of Environmental Services as required in accordance with the procedures in LAC 33:III.Chapter 5.
- No construction, modification, or operation of a facility which ultimately may result in an initiation or increase in emission of air contaminants as defined in LAC 33:III.1.1 shall commence until the permit application has been approved, an appropriate permit fee paid (in accordance with LAC 33:III.Chapter 2), and a permit (certificate of approval) has been issued by the permitting authority.
- Operate the source in accordance with all terms and conditions of this permit.

SPECIFIC REQUIREMENTS

AI ID: 1357 - Cytel Industries Inc - Fortier Plant
Activity Number: PER20090005
Permit Number: 2306-V2
Air - Title V Regular Permit Renewal

UNF 0005 - Utilities Plant

- 82 [LAC 33:III.501.C.6] Data availability for continuous monitoring or monitoring to collect data at specific intervals. Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purpose of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Facility Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H). Comply with terms and conditions incorporated in the permit to ensure compliance with all state and federally applicable air quality requirements and standards at the source, and such other permit terms and conditions as determined by the permitting authority to be reasonable and necessary. Any major source as defined in LAC 33:III.502 is designated a Part 70 source and is required to obtain a permit which will meet the requirements of LAC 33:III.507.
- 83 [LAC 33:III.501.C.6] Any permit application to renew an existing permit shall be submitted at least six months prior to the date of permit expiration, or at such earlier time as may be required by the existing permit or approved by the permitting authority. In no event shall the application for permit renewal be submitted more than 18 months before the date of permit expiration.
- 84 [LAC 33:III.507.A.1.a] Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- 85 [LAC 33:III.507.E.4] Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology.
- 86 [LAC 33:III.5107.B.5] Submit permit application: Due prior to commencement of construction, reconstruction, or modification of the source, for new or modified sources. Do not commence construction, reconstruction, or modification of any source required to be permitted under LAC 33:III.Chapter 5 prior to approval by the permitting authority.
- 87 [LAC 33:III.5109.B.3] Any application form, report, or compliance certification submitted under this Chapter shall contain certification by a responsible official of truth, accuracy, and completeness. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information contained in the application are true, accurate, and complete.
- 88 [LAC 33:III.517.A.4] Submit supplementary facts or corrected information: Due promptly upon becoming aware of failure to submit or incorrect submittal regarding permit applications. In addition, provide information as necessary to address any requirements that become applicable to the source after the date of filing a complete application but prior to release of a proposed permit.
- 89 [LAC 33:III.517.B.1] Submit applications for permits in accordance with forms and guidance provided by the DEQ. At a minimum, each permit application submitted under LAC 33:III.Chapter 5 shall contain the information specified in LAC 33:III.517.D, subparagraphs 1-18.
- 90 [LAC 33:III.517.C] In addition to those elements listed under LAC 33:III.517.D, include in each application pertaining to a Part 70 source the information specified in LAC 33:III.517.E, Subparagraphs 1-8.
- 91 [LAC 33:III.517.D] Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535, LAC 33:III.537]
- 92 [LAC 33:III.517.E]
- 93 [LAC 33:III.535]

SPECIFIC REQUIREMENTS

AI ID: 1357 - Cytec Industries Inc - Fortier Plant
Activity Number: PER20090005
Permit Number: 2306-V2
Air - Title V Regular Permit Renewal

UNF 0005 - Utilities Plant

- 94 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert.
- 95 [LAC 33:III.5609.A.2.b] Activate the preplanned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning.
- 96 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency.
- 97 [LAC 33:III.5609.A] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7.
- 98 [LAC 33:III.5609] Develop and maintain standby plans for emissions reduction during emergency episodes.
- 99 [LAC 33:III.59] Shall comply with all applicable provisions of LAC 33:III.5907 and 5911 (Chemical Accident Prevention Program).
- 100 [LAC 33:III.918] Shall comply with all applicable provisions of LAC:33:III.918 and 927.
- 101 [LAC 33:III.927] Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:III. Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:III.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases.